



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

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ENVIRONMENTAL QUALITY

1445 North Orchard • Boise, Idaho 83706-2239 • (208) 373-0550

Dirk Kempthorne, Governor  
Toni Hardesty, Director

March 24, 2005

**CERTIFIED RETURN RECEIPT #7099 3220 0009 1975 8104**

Mr. Jon Fabricius, President  
Dickinson Frozen Foods, Inc.  
P.O. Box 1010  
Fruitland, Idaho 83619

**Subject: Dickinson Frozen Foods, Inc., WLAP Permit No. LA-000178-02  
Permit Modification "A" to FINAL PERMIT (Industrial Wastewater)**

Dear Mr. Fabricius:

We are issuing a modification to the above referenced Wastewater-Land Application permit for Dickinson Frozen Foods, Inc. This modification updates the ground water monitoring sampling requirements and provides clarification on the monitoring locations. Revisions are highlighted in bold italics. Please replace the applicable pages with those enclosed.

This permit modification is an official part of your permit LA-000178-02. It is mandatory that this document be attached to the permit for the permit to be complete and official.

The effective date of this modification is March 24, 2005 and expires at the same expiration date for permit LA-000178-02.

If you have any questions or need further information, please call me at (208) 373-0252.

Sincerely,

Paul Wakagawa, P.E.  
Technical Engineer 1

Enclosure: Permit Modification "A"

cc: Charles W. Ariss, P.E., Engineering Manager, Boise Regional Office  
Richard Huddleston, P.E., State Water Quality Office  
Paul Wakagawa, Boise Regional Office  
Sean Coyle, State Technical Services Office (w/ enclosure)  
Tressa Nicholas, Boise Regional Office (w/ enclosure)  
Kevin Shoemaker, Basis Engineering, P.O. Box 403, Fruitland 83619  
WLAP SO file LA-000178-02 (w/ enclosure)  
BRO file 17.1, attach to final permit, LA-000178-02 (w/ enclosure), Reading File

### D. Facility Information

Legal Name of Permittee	Dickinson Frozen Foods, Inc.
Type of Wastewater	Onion processing wastewater
Method of Treatment	Aerated basin, clarifier and slow rate land application
Type of Facility	Industrial
Site Acres	5.6 Acres
Facility Location	Fruitland, Idaho
Legal Location	T8N, R5W, Sec. 15
County	Payette
USGS Quad	Payette, Idaho-Oregon
Soils on Site	Clems Fine Sandy Loam
Depth to Ground Water	17 feet to seasonal high ground water
Beneficial Uses of Ground Water	Drinking water
Nearest Surface Water	Farmers Irrigation Canal
Beneficial Uses of Surface Water	Agriculture
Responsible Official	Mr. Jon Fabricius
Mailing Address	P.O. Box 1010 Fruitland, ID 83619
Phone / Fax	(208)452-5200 / (208)452-5365
Facility Consultants	<i>Basic Engineering</i>
Mailing Address	<i>P.O. Box 403</i> <i>Fruitland, ID 83619</i>
Phone / Fax	<i>(208) 452-2296 / (208) 452-7072</i>

LA-000178-02	Dickinson Frozen Foods, Inc.,	Permit Modification "A" March 24, 2005	Page 5
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## G. Monitoring Requirements

### Facility Monitoring Table

Frequency	Monitoring Point	Description/Type of Monitoring	Parameters
Daily	Flow meter	Flow of wastewater into land application system	Volume (million gallons and acre-inches) to each hydraulic management unit (HMU), record monthly and annually
Monthly	Effluent to land application	Wastewater quality into land application system. See Note 6 above	Chemical oxygen demand, total Kjeldahl nitrogen, ammonia-nitrogen, nitrite + nitrate-nitrogen, total phosphorous, chloride, electrical conductivity, potassium, pH, total solids, total volatile solids
Monthly (for the 2004 growing season only)	Effluent to land application	Wastewater quality into land application system grab sample	Total coliform, fecal coliform, fecal streptococcus
Daily	Lagoon, listed in Appendix 1	Wastewater in Lagoon	Dissolved oxygen (DO)
Daily	Flow meter or Calibrated Pump Rate	Supplemental Irrigation Water	Volume (million gallons and acre-inches) to each HMU, report monthly and annually
Twice per year (May and Sep) First year of use only	Supplemental irrigation water	Grab sample	Nitrate + nitrite nitrogen, total phosphorous, total dissolved solids, chloride, total Kjeldahl nitrogen
Twice per year until completion of CA-178-05 (March and September)	Ground Water monitoring well MW-1	See Note 7 above	Nitrate-nitrogen, total phosphorous, total dissolved solids, water table elevation, water table depth, total iron, total manganese, chloride, dissolved iron <sup>1</sup> , dissolved manganese <sup>1</sup> , pH, conductivity, and temperature
Quarterly after completion of CA-178-05 (March, June, September, and December)	<i>Ground Water monitoring wells MW-1 and MW-2 (GW-017801 and GW-017802)</i>	See Note 7 above	Nitrate-nitrogen, total phosphorous, total dissolved solids, water table elevation, water table depth, total iron, total manganese, chloride, dissolved iron <sup>1</sup> , dissolved manganese <sup>1</sup> , pH, conductivity, and temperature
Monthly	Each HMU	Calculate IWR for each crop type	Volume (million gallons and acre-inches) to each HMU, record monthly

LA-000178-02	Dickinson Frozen Foods, Inc.,	Permit Modification "A" March 24, 2005	Page 11
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## G. Monitoring Requirements

<i>Twice per year</i> (April and October)	Each soil monitoring unit	See note 5 above	Electrical conductivity, nitrate-nitrogen, ammonium nitrogen, plant available phosphorus, pH
Annually	Each IIMU	Crop type and yield	Pounds/acre and total pounds per HMU (specify moisture basis)
	Each HMU	Plant tissue analysis: Composite sample of harvested portion	Nitrate-nitrogen, total kjeldahl nitrogen, total phosphorus, ash, moisture content
	Each HMU	Calculate crop nitrogen, phosphorous, and ash removal	Pounds/acre and total pounds per HMU (dry basis)
	Each HMU	Calculate GS wastewater loading rate	Million gallons & Inches/GS
	Each HMU	Calculate seasonal average COD loading rate	Pounds/acre-day
	Each HMU	Calculate wastewater nitrogen loading rate	Pounds/acre-year
	Each HMU	Calculate wastewater phosphorous loading rate	Pounds/acre-year
	Each HMU	Calculate non-volatile solids (NVS) from wastewater application	NVS applied in pounds/acre-year
Every two years, starting with first year of permit	All flow measurement locations	Flow measurement calibration of all flows to land application.	Document the flow measurement calibration of all flow meters and pumps used directly or indirectly measure all water flows applied to each IIMU
<i>March 2006 and March 2009</i>	<i>Ground Water monitoring wells GW-017801 and GW-017802</i>	See Note 7 above	Sulfate, sodium, potassium, calcium, magnesium, carbonate/bicarbonate

## G. Monitoring Requirements

<b>March 2006 and March 2009</b>	<b>Domestic wells GW-017803 and GW-017804</b>	<b>Grab sample from domestic wells (with well owner's permission. See note 1 above)</b>	Sulfate, sodium, potassium, calcium, magnesium, carbonate/bicarbonate
<b>Annually in March starting in 2006</b>	<b>Domestic wells GW-017803 and GW-017804</b>	<b>Grab sample from domestic wells (with well owner's permission. See note 1 above)</b>	Specific conductivity, total dissolved solids (TDS), nitrite + nitrate nitrogen, total phosphorus, chloride, total iron, total manganese, dissolved iron <sup>1</sup> , dissolved manganese <sup>1</sup>

1. Analytical results are required for dissolved iron and/or manganese only if the results for total iron and/or manganese exceed the standards in IDAPA 58.01.11.200.01.b.

Appendix 1  
Environmental Monitoring Serial Numbers

**HYDRAULIC MANAGEMENT UNITS**

Serial Number	Description	Acres
MU-017801	Field A	5.6

**WASTEWATER SAMPLING POINTS**

Serial Number	Description
SW-017801	Diversion point for supplemental irrigation water
WW-017801	Discharge point of wastewater at hand lines

**SOIL MONITORING UNITS**

Serial Number	Description	Associated MU
SU-017801	Field A	MU-017801

**GROUND WATER MONITORING**

Serial Number	Description (private, irrigation, dedicated monitoring)	Location
GW-017801	MW-1 (monitoring well)	Field D, <i>Downgradient</i>
GW-017802	<i>MW-2 (near SE corner of Field A)</i>	Upgradient
<i>GW-017803</i>	<i>Hanigan well, 1785 NW 24<sup>th</sup> St</i>	<i>Downgradient</i>
<i>GW-017804</i>	<i>SE corner of Hwy 95 and NW 21<sup>st</sup> St.</i>	<i>Downgradient</i>

Note: 1. *Downgradient domestic monitoring wells determined by ground water evaluation report prepared for compliance activity CA-178-04*

**LAGOONS**

Serial Number	Description
LG-017801	Aerated 3 MG Basin

LA-000178-02	Dickinson Frozen Foods, Inc.,	Permit Modification "A" March 24, 2005	Page 18
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